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(54) **SYSTEM-ON-CHIP TO SUPPORT FULL HANDSHAKE AND MOBILE DEVICE HAVING THE SAME**

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(57) **ABSTRACT**

A system-on-chip (SoC) comprises a clock management unit (CMU) including a first clock generator and a second clock generator, the first and second clock generators being configured to generate clock signals. The SoC comprises at least one logic block configured to request the clock signals from the CMU according to a full handshake method and receive the clock signals from the CMU in response to the request. The first clock generator and the second clock generator are configured to communicate according to the full handshake method.